Bulletin of the Academy of Sciences of the USSR Division of Chemical Science 1969 vol.18 N11, pages 2228-2234

Dipole moments, molar kerr constants, and three-dimensional structure of epoxy derivatives of adducts of p-benzoquinone with cyclic dienes

Arbuzov B., Grozina L., Vereshchagin A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. A number of epoxy derivatives of adducts of the diene synthesis of p-benzoquinone with cyclopentadiene and cyclohexadiene were synthesized. 2. The dipole moments and molar Kerr constants of eight epoxy derivatives were calculated from data on the electrical birefringence, dielectric permeabilities, indices of refraction, and densities of the solutions. 3. The configurations and conformations of the molecules of a number of compounds were calculated on the basis of the data obtained. © 1970 Consultants Bureau.

http://dx.doi.org/10.1007/BF00906485